

Fig. 1

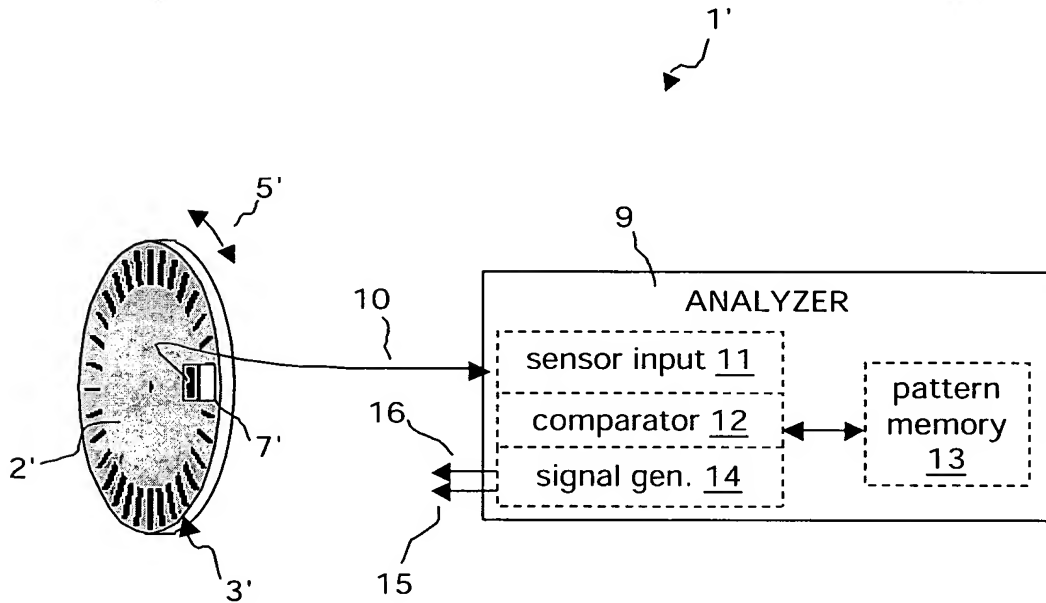


Fig. 2

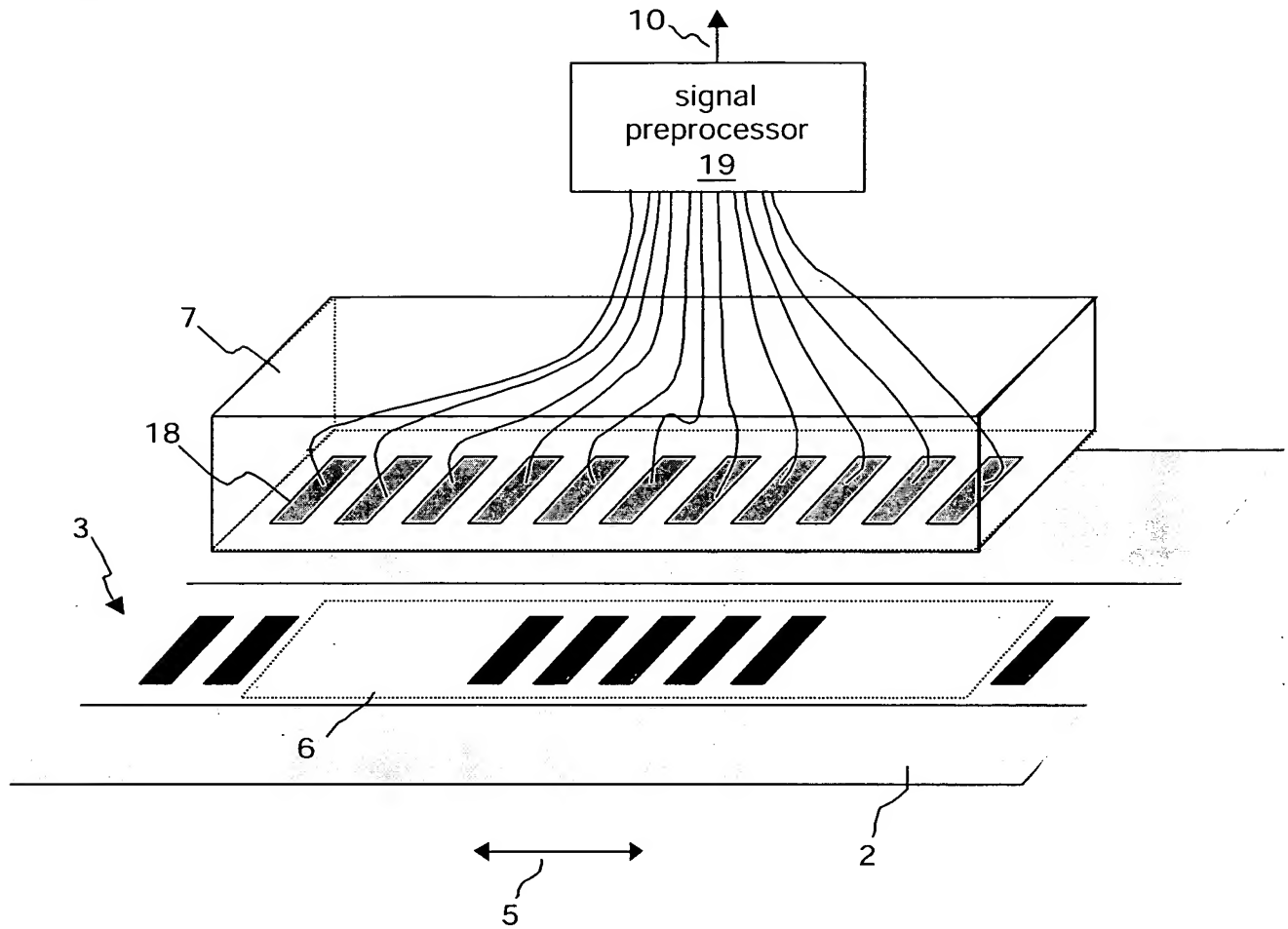


Fig. 3



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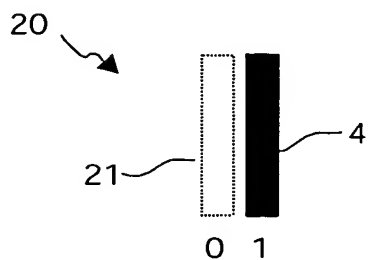


Fig. 4a

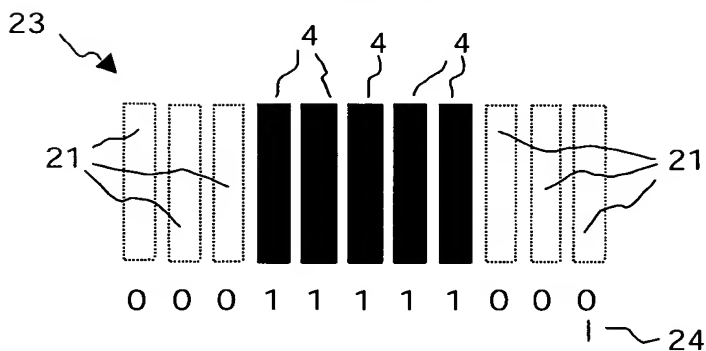


Fig. 4b

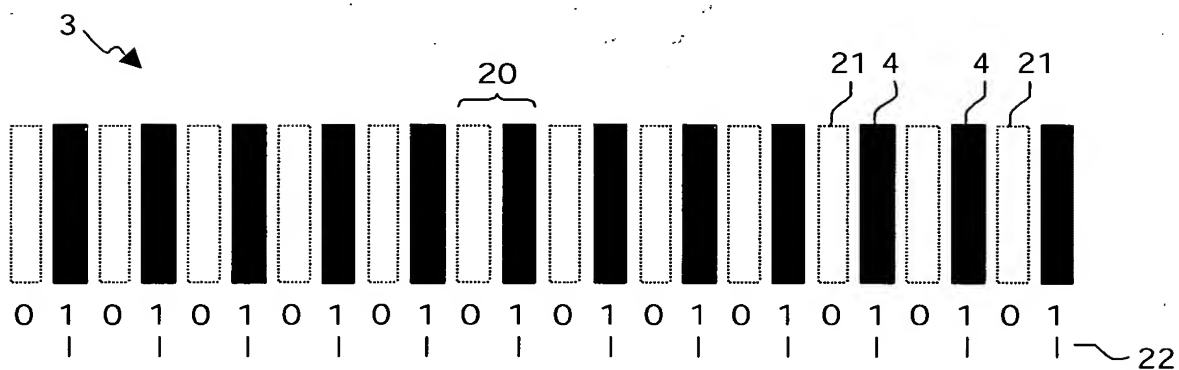


Fig. 4c

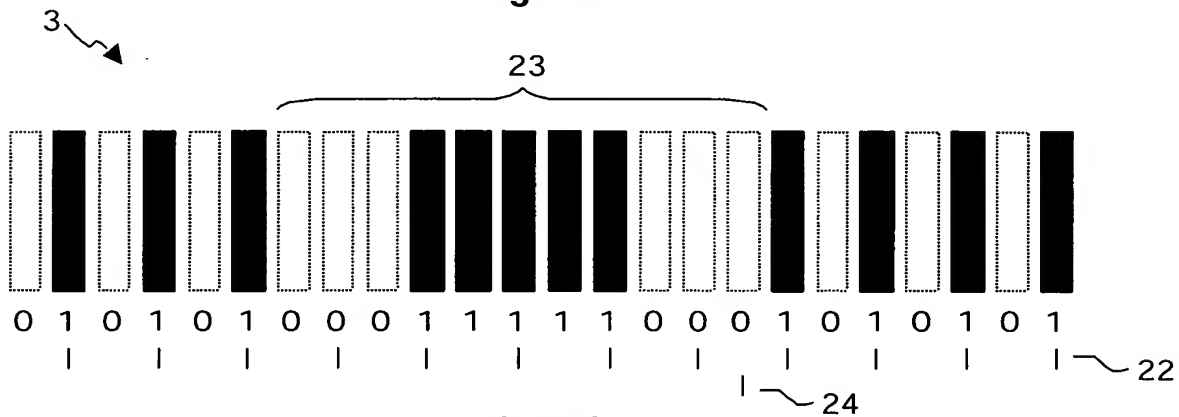


Fig. 4d



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	viewed pattern	incremental signal	index signal
P1		1	0
P2		0	0
P3		1	0
P4		0	0
P5		1	0
P6		0	0
P7		1	0
P8		0	0
P9		1	0
P10		0	0
P11		1	0
P12		0	1
P13		1	0
P14		0	0
P15		1	0
P16		0	0
P17		1	0
P18		0	0
P19		1	0
P20		0	0
P21		1	0
P2		0	0
P1		1	0

Fig. 5

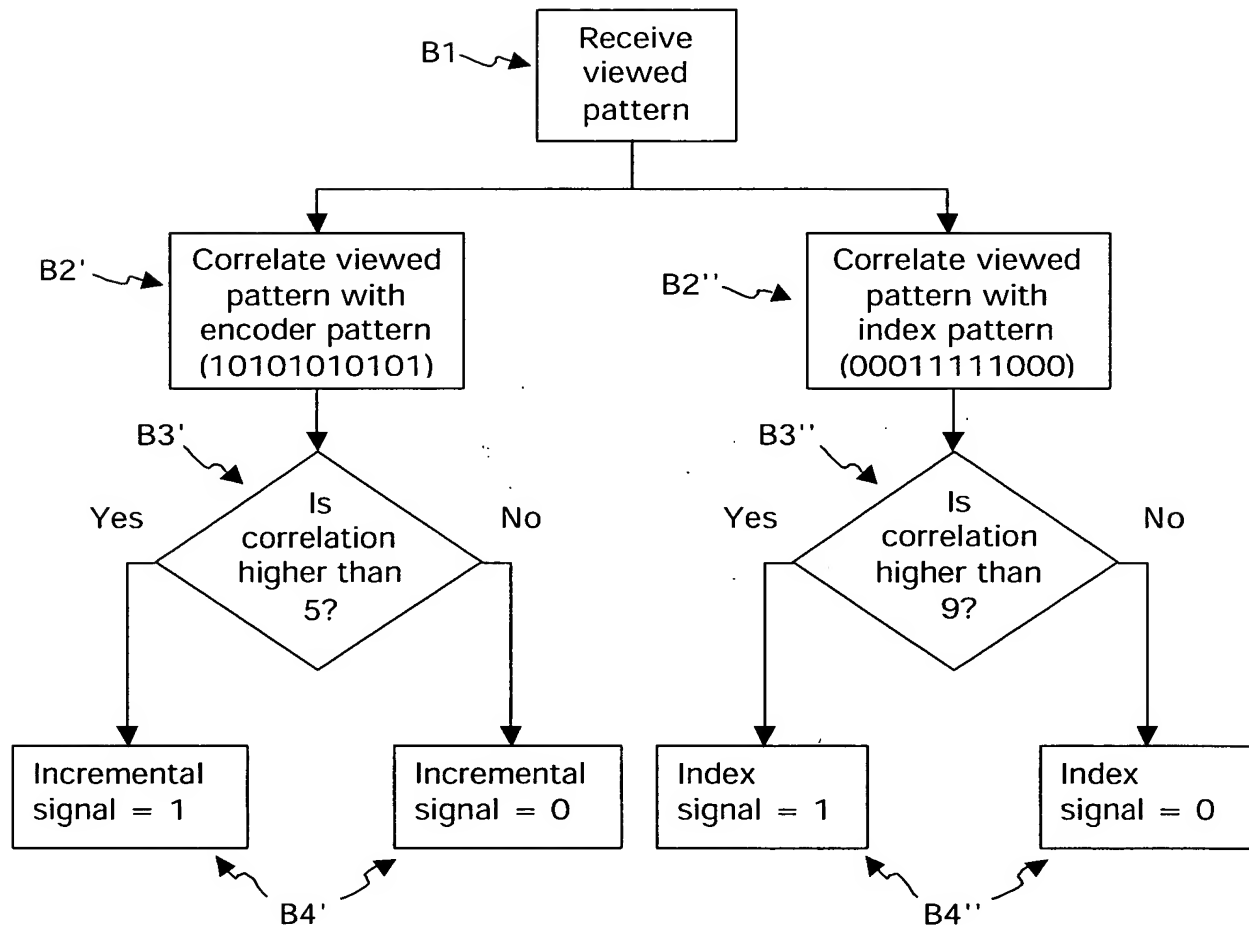
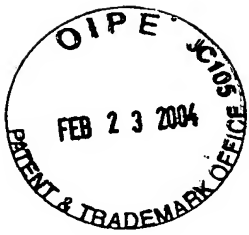


Fig. 6



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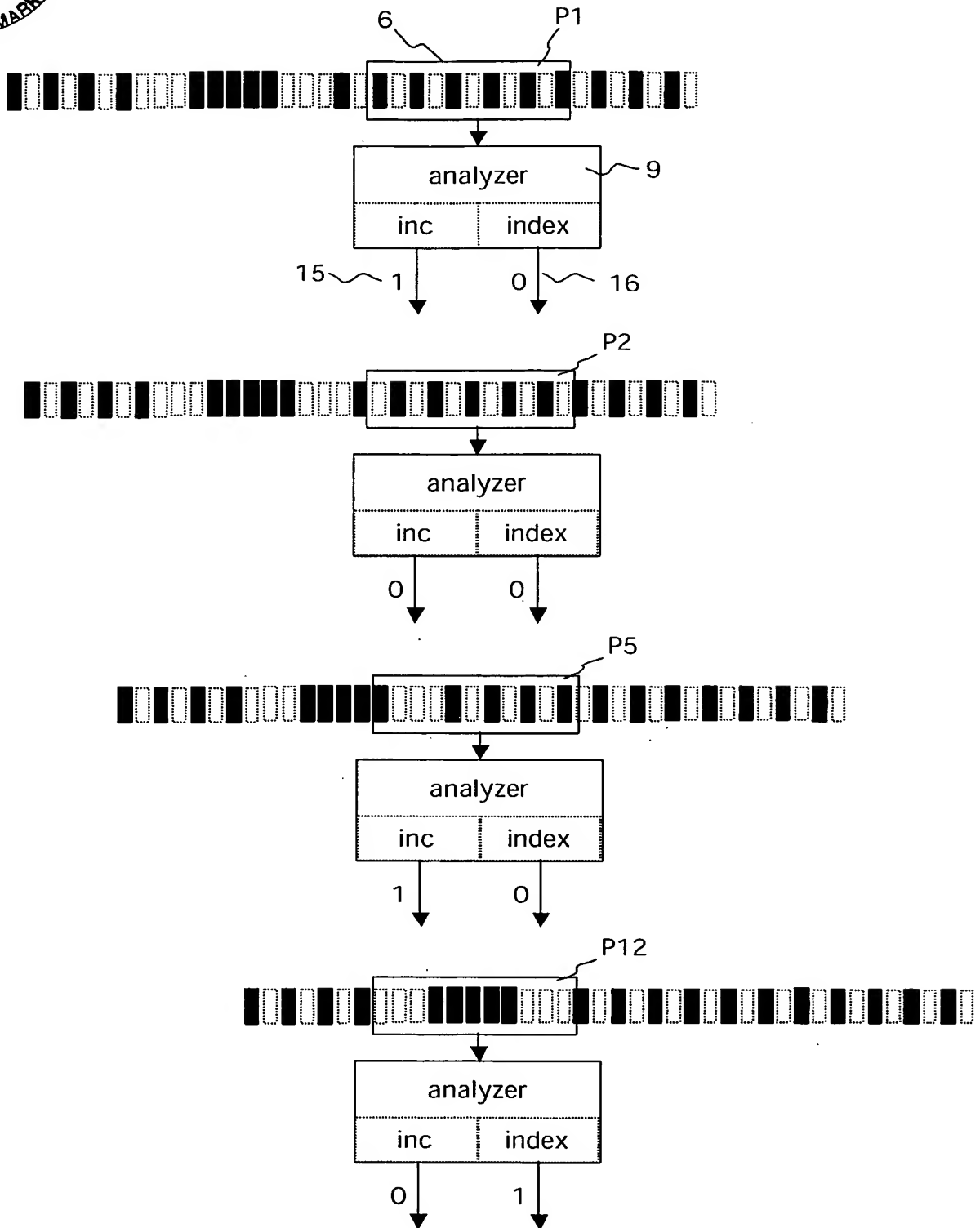
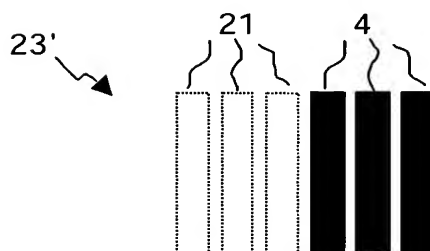


Fig. 7



	viewed pattern	incremental signal	index signal	
R1		010101	1	0
R2		101010	0	0
R3		110101	1	0
R4		111010	0	1
R5		011101	1	0
R6		001110	0	0
R7		000111	1	1
R8		100011	0	0
R9		010001	1	0
R10		101000	0	0
R11		010100	1	0
R2		101010	0	0
R1		010101	1	0

Fig. 8

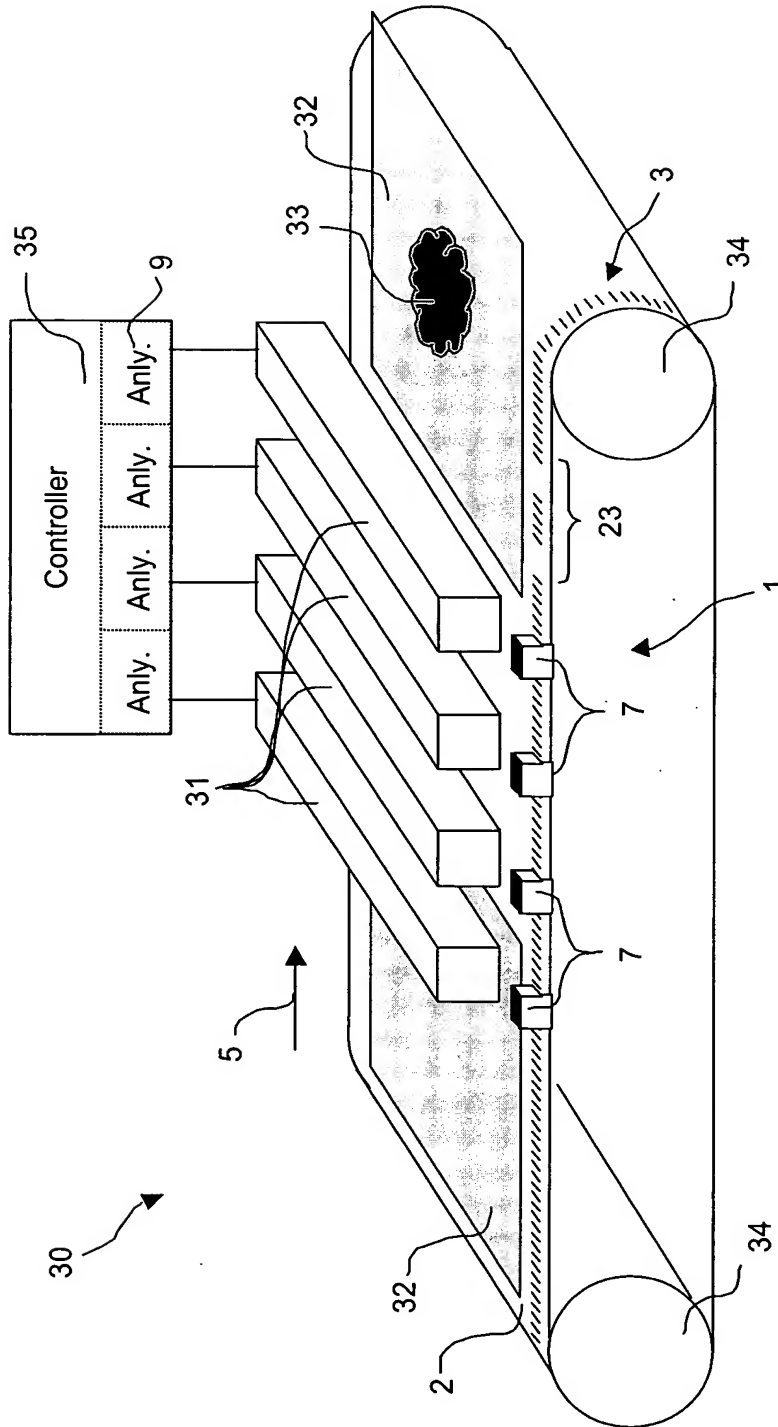


Fig. 9